

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866369

Luminaire Tested: PRLX-2002-M-940-35L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-35L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

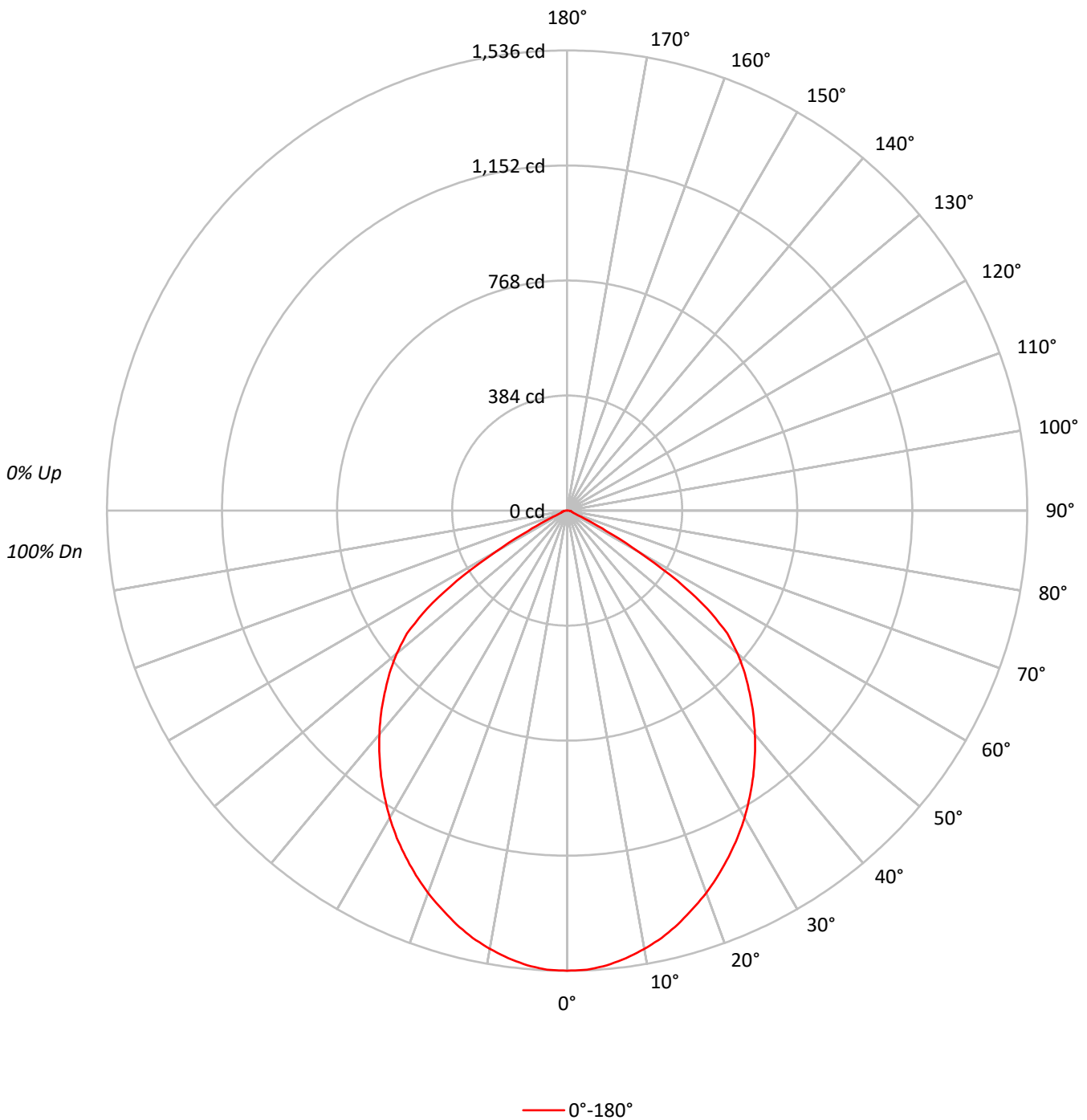
Lumens per Lamp: N/A
Luminaire Lumens: 3084.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12220
5°	12170
10°	12002
15°	11773
20°	11497
25°	11197
30°	10878
35°	10514
40°	10127
45°	9693
50°	9194
55°	7920
60°	4366
65°	1229
70°	491
75°	526
80°	600
85°	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9693 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	4.7
10°-20°	402.5	13.1
20°-30°	587.3	19.0
30°-40°	676.7	21.9
40°-50°	664.4	21.5
50°-60°	487.3	15.8
60°-70°	95.5	3.1
70°-80°	18.1	0.6
80°-90°	8.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1134.0	36.8
0°-40°	1810.8	58.7
0°-60°	2962.5	96.1
0°-90°	3084.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3084.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1536	
5°	1524	144
15°	1429	402
25°	1276	587
35°	1083	677
45°	862	664
55°	571	487
65°	65	95
75°	17	18
85°	8	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1536.0
2.5°	1533.9
5°	1523.9
7.5°	1506.8
10°	1485.7
12.5°	1460.6
15°	1429.4
17.5°	1394.2
20°	1358.0
22.5°	1317.8
25°	1275.6
27.5°	1231.4
30°	1184.1
32.5°	1133.9
35°	1082.6
37.5°	1029.3
40°	975.1
42.5°	919.8
45°	861.5
47.5°	804.2
50°	742.8
52.5°	673.5
55°	571.0
57.5°	437.3
60°	274.4
62.5°	147.8
65°	65.3
67.5°	30.2
70°	21.1
72.5°	19.1
75°	17.1
77.5°	15.1
80°	13.1
82.5°	11.1
85°	8.0
87.5°	4.0
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.24	19.67	18.61	19.98	20.30	18.24	19.67	18.61	19.98	20.30
	3H	18.15	19.41	18.53	19.74	20.10	18.15	19.41	18.53	19.74	20.10
	4H	18.09	19.26	18.50	19.61	20.00	18.09	19.26	18.50	19.61	20.00
	6H	18.04	19.11	18.45	19.48	19.88	18.04	19.11	18.45	19.48	19.88
	8H	18.01	19.03	18.44	19.42	19.82	18.01	19.03	18.44	19.42	19.82
	12H	17.98	18.95	18.41	19.34	19.77	17.98	18.95	18.41	19.34	19.77
4H	2H	18.10	19.27	18.50	19.62	20.00	18.10	19.27	18.50	19.62	20.00
	3H	18.02	18.96	18.43	19.37	19.77	18.02	18.96	18.43	19.37	19.77
	4H	17.96	18.80	18.40	19.22	19.66	17.96	18.80	18.40	19.22	19.66
	6H	17.92	18.64	18.38	19.09	19.55	17.92	18.64	18.38	19.09	19.55
	8H	17.88	18.56	18.35	19.00	19.47	17.88	18.56	18.35	19.00	19.47
	12H	17.86	18.46	18.34	18.94	19.41	17.86	18.46	18.34	18.94	19.41
8H	4H	17.85	18.52	18.31	18.97	19.44	17.85	18.52	18.31	18.97	19.44
	6H	17.79	18.35	18.29	18.84	19.32	17.79	18.35	18.29	18.84	19.32
	8H	17.75	18.26	18.27	18.77	19.26	17.75	18.26	18.27	18.77	19.26
	12H	17.74	18.19	18.25	18.69	19.25	17.74	18.19	18.25	18.69	19.25
12H	4H	17.80	18.41	18.29	18.89	19.36	17.80	18.41	18.29	18.89	19.36
	6H	17.73	18.24	18.25	18.75	19.24	17.73	18.24	18.25	18.75	19.24
	8H	17.72	18.17	18.23	18.67	19.23	17.72	18.17	18.23	18.67	19.23